

SEQUENCE LISTING

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<110> Padigaru, Muralidhara
      Gerlach, Valerie L.
      Smithson, Glennda
      Stone, David
      Bin-Yang, Ruey
      Conley, Pamela B.
      Hart, Matthew
      Tomlinson, James E.
      Topper, James N.
      Kekuda, Ramesh
      Casman, Stacie J.
      MacDougall, John R.
      Shlomit, Edinger R.
<120> Novel GPCR-Like Proteins and Nucleic Acids Encoding
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<140> 10/024444
<141> 2001-12-18
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- Ile Leu Tyr Met Leu Ala Leu Thr Ser Asn Gly Leu Leu Leu Ala 35 40 45
- Ile Thr Ile Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Gly
 50 55 60
- Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
 65 70 75 80
- Ala Leu Ala Asp Phe Leu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly
 85 90 95
- Cys Ala Leu Gl
n Met Phe Leu Ala Leu Thr Met Gly Ser Ala Glu Asp
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- Leu Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His 115 120 125
- Pro Leu Lys Tyr Met Thr Leu Met Ser Pro Arg Val Cys Trp Ile Met 130 135 140
- Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ile Ala Ile Gly His Thr 145 150 155 160
- Met Tyr Thr Met His Leu Pro Phe Cys Val Ser Trp Glu Ile Arg His 165 170 175
- Leu Leu Cys Glu Ile Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr 180 185 190
- Ser Arg Tyr Glu Leu Ile Ile Tyr Val Thr Gly Val Thr Phe Leu Leu 195 200 205
- Leu Pro Ile Ser Ala Ile Val Ala Ser Tyr Thr Leu Val Leu Phe Thr 210 215 220
- Val Leu Arg Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr 225 230 235 240
- Cys Ser Ser His Leu Ile Val Val Gly Met Phe Tyr Gly Ala Ala Thr 245 250 255
- Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn 260 265 270
- Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu

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Ile Tyr Ser Leu Arg Asn Lys Glu Val Met Arg Ala Leu Arg Arg Val 290 295 300

Leu Gly Lys Tyr Ile Leu Leu Ala His Ser Thr Leu 305 310 315

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Ile Thr Met Glu Ala Arg Leu His Met Pro Met Tyr Leu Leu Gly 50 55 60

Gln Leu Ser Leu Met Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys
65 70 75 80

Ala Leu Ala Asp Phe Leu Arg Arg Glu Asn Thr Ile Ser Phe Gly Gly 85 90 95

Cys Ala Leu Gl
n Met Phe Leu Ala Leu Thr Met Gly Gly Ala Glu Asp
 $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

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Pro Leu Thr Tyr Met Thr Leu Met Ser Ser Arg Ala Cys Trp Leu Met 130 135 140

Val Ala Thr Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Ile Tyr Thr 145 150 155 160

Val Tyr Thr Met His Tyr Pro Phe Cys Arg Ala Gln Glu Ile Arg His 165 170 175

Ser Arg Tyr Glu Leu Met Val Tyr Val Met Gly Val Thr Phe Leu Ile 195 200 205

Pro Ser Leu Ala Ala Ile Leu Ala Ser Tyr Thr Gln Ile Leu Leu Thr 210 215 220 Val Léu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr 225 230 · 235 240

Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Ala Ala Thr 245 250 255

Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Thr Arg Gln Asp Asn 260 265 270

Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu 275 280 285

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Ile Thr Val Asp Ala Arg Leu His Val Pro Met Tyr Leu Leu Leu Arg 50 55 60

Gln Leu Ser Leu Ile Asp Leu Leu Phe Thr Ser Val Val Thr Pro Lys 65 70 75 80

Ala Val Met Asp Phe Leu Leu Arg Asp Asn Thr Ile Ser Phe Gly Gly 85 90 95

Cys Ala Leu Gln Met Ala Leu Ala Leu Met Leu Gly Ser Ala Glu Asp 100 105 110

Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His 115 120 125

Pro Leu Asn Tyr Met Val Phe Met Ser Pro Thr Val Cys Trp Leu Ile 130 135 140

Val Ser Thr Ser Trp Ile Leu Ala Ser Leu Thr Ala Val Gly His Thr 145 150 155 160

Val Tyr Thr Met His Phe Pro Phe Cys Met Ser Gln Glu Ile Arg His 165 170 175 Leu Leu Cys Glu Ile Leu Pro Leu Leu Lys Leu Ser Cys Val Asp Thr 180 185 190

Ser Gln Tyr Glu Leu Met Val Tyr Val Thr Gly Val Thr Phe Leu Leu 195 200 205

Leu Pro Leu Ser Ala Ile Val Thr Ser Tyr Thr Leu Ile Leu Ser Thr 210 215 220

Val Leu His Met Pro Ser Asn Glu Gly Lys Lys Lys Ala Leu Val Thr 225 230 235 240

Cys Leu Ser His Leu Met Val Val Gly Met Phe Tyr Gly Ala Ala Thr 245 250 255

Phe Met Tyr Val Leu Pro Ser Ser Leu His Ser Ala Lys Gln Asp Asn 260 265 270

Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu 275 280 285

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Leu Gly Arg Tyr Ile Leu Pro Ala His Leu Thr Leu 305 310 315

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20 25 30

Thr Leu Tyr Met Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Val
35 40 45

Ile Thr Val Asp Ala Arg Leu His Val Pro Met Tyr Leu Leu Leu Arg 50 55 60

Gln Leu Ser Leu Ile Asp Leu Leu Phe Thr Ser Val Val Thr Pro Asn 65 70 75 80

Thr Val Val Asp Phe Leu Leu Arg Asp Asn Thr Ile Ser Phe Glu Gly 85 90 95

Cys Ala Leu Gln Leu Phe Ser Ala Met Thr Leu Gly Gly Ala Glu Asp 100 105 110

Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His

· 115 120 125

Pro Leu Asn Tyr Met Ile Phe Met Ser Pro Lys Ala Cys Arg Leu Met 130 135 140

- Val Ala Ile Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Gly His Thr 145 150 155 160
- Val Tyr Thr Met His Phe Pro Phe Cys Met Ser Gln Glu Ile Arg His 165 170 175
- Leu Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr 180 185 190
- Ser Gln Tyr Glu Leu Met Val Tyr Val Thr Gly Val Ile Phe Leu Leu 195 200 205
- Leu Pro Leu Ser Ala Ile Ile Thr Ser Tyr Ser Leu Ile Leu Phe Thr 210 215 220
- Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr 225 230 235 240
- Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Gly Ala Thr 245 250 255
- Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn 260 265 270
- Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu 275 280 285
- Leu Gly Arg His Ile Leu Pro Ala His Ala Thr Val 305 310 315

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 20 25 30
- Thr Leu Tyr Met Leu Ala Leu Ile Ser Asn Gly Leu Leu Leu Val 35 40 45
- Ile Thr Val Asp Ala Arg Leu His Val Pro Met Tyr Leu Leu Leu Arg 50 55 60

Gln Leu Ser Leu Ile Asp Leu Leu Phe Thr Ser Val Val Thr Pro Asn 70 -Thr Val Val Asp Phe Leu Leu Arg Asp Asn Thr Ile Ser Phe Glu Gly 90 Cys Ala Leu Gln Leu Phe Ser Ala Met Thr Leu Gly Gly Ala Glu Glu 105 110 Leu Leu Ala Phe Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Leu Asn Tyr Met Ile Phe Met Ser Pro Lys Ala Cys Arg Leu Met Val Ala Ile Ser Trp Ile Leu Ala Ser Leu Ser Ala Leu Gly His Thr Val Tyr Thr Met His Phe Pro Phe Cys Met Ser Gln Glu Ile Arg His 170 Leu Leu Cys Glu Val Pro Pro Leu Leu Lys Leu Ala Cys Ala Asp Thr 180 Ser Gln Tyr Glu Leu Met Val Tyr Val Thr Gly Val Ile Phe Leu Leu 200 Leu Pro Leu Ser Ala Ile Ile Thr Ser Tyr Ser Leu Ile Leu Phe Thr 215 Val Leu His Met Pro Ser Asn Glu Gly Arg Lys Lys Ala Leu Val Thr 225 230 235 Cys Ser Ser His Leu Thr Val Val Gly Met Phe Tyr Gly Gly Ala Thr 245 250 Phe Met Tyr Val Leu Pro Ser Ser Phe His Ser Pro Lys Gln Asp Asn 265 Ile Ile Ser Val Phe Tyr Thr Ile Val Thr Pro Ala Leu Asn Pro Leu 280 Ile Tyr Ser Leu Arg Asn Lys Glu Val Ile Gly Ala Val Arg Arg Val Leu Gly Arg His Ile Leu Pro Ala His Ala Thr Val 305 310 315

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Leu Gly Arg Tyr Ile Val Pro Ala His Pro Thr Leu 305 310 315

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<222> (2)
<223> X2 wherein Xaa is Gly, or Ser, or Thr, or Ala, or Asn, or
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<221> MISC FEATURE
<222> (3)
<223> X3 wherein Xaa is Glu, or Asp, or Pro, or Lys, or Arg, or His
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<222> (4)
<223> X4 wherein Xaa is any amino acid
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Phe Leu Leu Thr Leu Pro Pro Trp Ala Leu Tyr Tyr Leu Val Gly Gly 35 40 45

Asp Trp Val Phe Gly Asp Ala Leu Cys Lys Leu Val Gly Ala Leu Phe 50 55 60

Val Val Asn Gly Tyr Ala Ser Ile Leu Leu Leu Thr Ala Ile Ser Ile 65 70 75 80

Asp Arg Tyr Leu Ala Ile Val His Pro Leu Arg Tyr Arg Arg Ile Arg 85 90 95

Thr Pro Arg Arg Ala Lys Val Leu Ile Leu Leu Val Trp Val Leu Ala 100 105 110

Leu Leu Ser Leu Pro Pro Leu Leu Phe Ser Trp Leu Arg Thr Val 115 120 125

Glu Glu Gly Asn Thr Thr Val Cys Leu Ile Asp Phe Pro Glu Glu Ser 130 135 140

Val Lys Arg Ser Tyr Val Leu Leu Ser Thr Leu Val Gly Phe Val Leu 145 150 155 160

Pro Leu Leu Val Ile Leu Val Cys Tyr Thr Arg Ile Leu Arg Thr Leu 165 170 175

Arg Lys Arg Ala Arg Ser Gln Arg Ser Leu Lys Arg Arg Ser Ser Ser 180 185 190

Glu Arg Lys Ala Ala Lys Met Leu Leu Val Val Val Val Phe Val 195 200 205

Leu Cys Trp Leu Pro Tyr His Ile Val Leu Leu Leu Asp Ser Leu Cys 210 215 220

Leu Leu Ser Ile Trp Arg Val Leu Pro Thr Ala Leu Leu Ile Thr Leu 225 230 235 240

Trp Leu Ala Tyr Val Asn Ser Cys Leu Asn Pro Ile Ile Tyr 245 250

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